

**CONTRACTOR'S FINAL SITE REPORT
USS LEAD SITE**

Prepared for:

U.S. Environmental Protection Agency
Region V Emergency Response Division
77 W. Jackson Boulevard
Chicago, IL 60604

EPA Contract No. EP-S5-08-02
Task Order No. 0097

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1.0 INTRODUCTION AND OVERVIEW

This Contractor's Final Site Report was prepared by Environmental Quality Management, Inc. (EQ) in accordance with Section F.2.3.C of EQ's Emergency and Rapid Response Services (ERRS) contract (EPA Contract No. EP-S5-08-02) with the U.S. Environmental Protection Agency (U.S. EPA). The report applies to:

U.S. EPA Task Order No.: 0097

U.S. EPA Site No.: 053J

Site Name & Location: USS Lead Site
East Chicago, IN

Section 2.0 provides a brief description of the USS Lead site and details the ERRS response approach, problems encountered, and solutions used to remedy the problems encountered. Section 3.0 presents a summary of all ERRS resources used, other related items or services delivered, and costs.

2.0 DESCRIPTION OF SITE AND ERRS RESPONSE APPROACH

A written task order was received from the U.S. EPA on September 30, 2011. The statement of work specified that EQ, at the discretion of the Federal On-Scene Coordinator (FOSC), Mr. Len Zintak, was to:

- 1) Develop concurrently with the Work Plan and site Health and Safety Plan an Air Monitoring Plan and Site Security Plan for the lead-contaminated soil assessment of the site;
- 2) Conduct land surveying to the extent necessary to establish a grid system to locate all property boundaries, special features (pipes, storage tanks, etc.), and sample locations;
- 3) Remove, transport and dispose of all characterized or identified hazardous substances, pollutants, wastes or contaminants based upon soil results, at a RCRA/CERCLA approved disposal facility in accordance with the U.S. EPA off-site rule; and
- 4) Backfill excavated areas with clean material and topsoil with seeding as needed.

The USEPA Region 5 remediated lead contaminated soil from approximately 16 residences in the East Chicago, IN area. Approximately 13 residences were remediated on a previous task order. These homes were all built in an area of intense industrial activity, and in close proximity to the former US Smelter and Lead Facility that operated between 1906 and 1985. Facility operations were a potential source of lead contamination throughout the area. Former site operations included blast furnace slag operations, baghouse dust collection in waste piles, battery breaking, and emissions through furnace stacks and waste piles. Five residences that will be remediated are part of the East Chicago Public Housing Complex, which is constructed on the grounds of the former International Lead and Anaconda Lead Refineries.

A site specific Work Plan and Health and Safety Plan were developed and submitted. A site walk was conducted with the EPA and START on 10/11/11. The attendees met at a residence, containing the highest background samples for lead, to collect a disposal sample from the yard. The sample was sent requesting quick turnaround for disposal parameters. Equipment was procured,

and a sample was collected from the selected backfill source to confirm the backfill is clean on 10/18/11. Bids for the T&D of the contaminated soil were also procured, and Republic Services Newton County Landfill in Brook, IN was the successful bidder. EQ's Hammond, IN office was utilized as a command post for this project as it was located approximately 6 miles north of the site. The Indiana "Dig" hotline was notified to mark the first 5 residences for underground utilities. Analytic results were received on 10/20/11, and a disposal profile was completed for the Newton County Landfill.

Site mobilization occurred on 10/24/11. EQ reviewed the site HASP, discussed the objectives of the scope of work, and met with Public Housing representatives to discuss the upcoming work and schedule. Site work commenced on 10/25/11, with 2 excavation crews working on the first 2 residences within the East Chicago Public Housing Complex. Each crew utilized small equipment to excavate the yards to a maximum depth of 2'6". Trucks were loaded and shipped for disposal, and then were brought back to the residences for additional loads. Upon completion of the first week, an additional backfill crew was mobilized to the site. Pulverized clean topsoil was used to backfill the properties on 10/28/11. Upon completion, the yards were hydroseeded with a mulch/tackifier/seed mix of 40% Kentucky Bluegrass, 20% Red Fescue, and 40% Perennial Rye. The seed mix was applied 9 lbs per square yard. All 5 East Chicago Public Housing residences were complete on 11/15/11. The crew continued working on the other 11 residences with the multiple crews and by 11/20/11, 9 of the 16 residences were completed.

The excavation, backfill, final grading, and hydroseeding were completed for the remaining 7 residences on 12/8/11. On 12/9/11, equipment was decontaminated and the Veolia crew demobilized from the site. Decon of the other leased equipment continued until 12/13/11, and the remaining crew demobilized from the site. A total of 109 loads of lead contaminated soil was shipped for offsite disposal, and an estimated 2000 tons of soil and debris. 139 loads of backfill was used to restore the properties.

On 5/1/12, the RM met the OSC to review all of the properties. Except for 3, all of the properties required reseeding. On 5/3/12, the RM met the

landscaper onsite to review the properties. On 5/11/12, the 12 properties were reseeded. On 5/13/12, the RM mowed the property located at 452 Vernon Avenue. On 5/23/12, Hammond Fence repaired the fence located at 4755 Grasselli. The RM met the landscaper on 6/22/12 to apply fertilizer and weed killer on all properties.

The RM met the landscaper on 10/5/12 at 452 Vernon, but the property owner did not allow the landscaper to seed the lawn. The property owner and OSC agreed to have TruGreen weed and feed the lawn for one year. On 11/13/12, EQ and the EPA met at 4921 Euclid Avenue. The homeowner was unhappy that some areas of the yard had settled, and had not grown sufficient grass. He also noted that some concrete sidewalks had settled and cracked due to crossing them with small excavation equipment during the removal. EQ had utilized weight displacement mats over those areas during the removal, and photos taken by START did not provide evidence of their condition prior to removal. The EPA directed EQ to repair the yard, and procure a subcontractor to repair the sidewalks.

On 11/15/12, EQ returned to 4921 Euclid Avenue with 2 laborers to repair the yard. Approximately 2 cubic yards of pulverized topsoil was delivered, and was spread manually over the areas that had settled. A seed mix and fertilizer was applied to the affected areas, and seed mix was raked in. The areas were not wetted due to the time of year (the seed mix will remain dormant until spring). Sidewalk repair subcontractors visited the site to discuss the repair work.

EQ completed procuring bids and conducting sidewalks with vendors for the sidewalk repair at 4921 Euclid Avenue on 12/10/12. A subcontractor was selected, the subcontractor procured a building permit from the city and provided proof of insurance, and the contractor mobilized to the site on 12/17/12 to begin work. The subcontractor removed the broken panels of sidewalk from the street to the front steps, and around the south side of the house to the rear garage slab. The sidewalk was formed, and the old concrete was hauled off for recycling. The next day the sidewalk was poured and completed. A 1" separation that ran along the garage slab was repaired by sealing the separation

with concrete filler. The vendor returned on 12/18/12 to remove the forms from the sidewalks. The resident met with EQ and EPA and the work was approved.

Lawn treatments began at 452 Vernon Avenue. The selected lawn service will provide a total of four (4) treatments, and the first treatment was a fertilizer and weed removed. The yard will also be cut and trimmed for an 8 week period.

The lawn at 452 Vernon Avenue was aerated and re-seeded on 4/22/13 to help promote new growth. An aerator was used to punch holes in the ground to aerate and soften the soil, and new seed was applied to the $\frac{1}{4}$ acre property. The property was also re-fertilized on 5/6/13 to help promote a thicker, healthier lawn. The property was also mowed and trimmed on a weekly basis.

On 6/5/13, True Green responded to the residence with the 3rd of 6 scheduled lawn treatments. An application of fertilizer/weed control, and insect (grub) control, was applied to the lawn. The RM and OSC met with the resident at 452 Vernon Avenue, and the resident agreed that the condition of the lawn had greatly improved.

True Green performed a lawn treatment at the residence located at 452 Vernon Avenue on 7/24/13. A fertilizer and weed control were applied. True Green remobilized to the residence at 452 Vernon Avenue on 9/11/13 to apply the final weed and feed for the season.

EQ and True Green mobilized to 452 Vernon Avenue on 10/25/13 to apply the final lawn application. This winterization application completed the lawn restoration, and site demobilization occurred on the same day.

3.0 ERRS RESOURCES, ITEMS, SERVICES & COSTS

Appendix A of this report contains detailed lists of all ERRS labor, equipment, material items, and subcontracted services that were utilized to complete this ERRS delivery order response. Table 1 provides an overall cost summary for all ERRS resources used on this task order.

TABLE 1. SUMMARY OF ERRS TASK ORDER COSTS

LABOR:	SUBTOTAL	TOTAL
EQ	[REDACTED]	
Veolia	\$ [REDACTED]	\$ [REDACTED]
EQUIPMENT:		
EQ	\$ [REDACTED]	
Veolia	\$ [REDACTED]	\$ [REDACTED]
OTHER FIELD COSTS:		
EQ	\$ [REDACTED]	
Veolia	[REDACTED]	\$ [REDACTED]
TOTAL COST to DATE: (through 12/17/13)		\$ [REDACTED]

Appendix B contains waste transportation and disposal documentation, which identifies the waste types, volumes, and disposal methods used for offsite disposal.

APPENDIX A
DETAILED RESOURCE LISTS

ALL REDACTED

63 PAGES

APPENDIX B

**WASTE TRANSPORTATION AND
DISPOSAL INFORMATION**

Lead Contaminated Soil

1. Superfund Site Name: USS Lead
CERCLIS # IND047030226 State: Indiana
2. Type of Action
☒ Removal ☐ Remedial
☒ Fund Financed ☐ Fund Financed
☐ PRP Financed ☐ PRP Financed
3. Type and Form of waste; if more than one type, attach separate sheet for this and remaining questions for each type:
- | Type: | Form: |
|--|---|
| <input type="checkbox"/> Solvents | <input type="checkbox"/> Wastewater |
| <input type="checkbox"/> Dioxins/Furans | <input type="checkbox"/> Liquid Waste |
| <input type="checkbox"/> Cyanide | <input type="checkbox"/> Organic Sludge (greater than 1% Total Solids) |
| <input type="checkbox"/> Heavy Metals (Specify)
_____ | <input type="checkbox"/> Inorganic Sludge (less than 1% Total Organic Carbon) |
| <input type="checkbox"/> Acids | <input type="checkbox"/> Solid or Solidified Waste |
| <input type="checkbox"/> PCBs | <input checked="" type="checkbox"/> Contaminated Soil and Debris |
| <input type="checkbox"/> Halogenated Organics | |
| <input type="checkbox"/> Other RCRA-listed Hazardous Wastes (Specify)
_____ | |
| <input checked="" type="checkbox"/> Non-hazardous or de-listed Wastes | |
4. Quantity of Waste: 2,005
☐ Cubic Yards(CY) ☐ Lab Packs
☐ Gallons (Gal) ☒ Tons
☐ Drums
5. Range, average, and/or representative concentration of the contaminants of concern
TCLP Lead <5 mg/l
6. Pre-treatment of waste before transportation:
☐ Precipitation ☐ Neutralization
☐ Solidification ☐ Fixation
☐ Stabilization ☐ Other
☒ None
7. Receiving RCRA facility name/location/I.D. No./unit(s):

Newton County Landfill

Brook, Indiana

Not Applicable

8. Receiving Region: 5

9. Receiving Region Offsite Contact (RROC):

Name: Will Damico

Date: 10-12-11

10. Date of Shipment 10-26-11, 10-27-11, 10-28-11, 10-31-11, 11-1-11, 11-2-11, 11-3-11, 11-4-11, 11-7-11,

11-8-11, 11-9-11,

11-10-11, 11-11-11,

11-14-11, 11-15-11,

11-16-11, 11-17-11,

11-18-11, 11-21-11,

11-22-11, 11-28-11,

11-29-11, 11-30-11,

12-1-11, 12-2-11,

12-5-11 & 12-6-11

Date of Disposal: 10-26-11, 10-27-11, 10-28-11, 10-31-11, 11-1-11, 11-2-11, 11-3-11, 11-4-11,

11-7-11, 11-8-11, 11-9-11, 11-10-11, 11-11-11, 11-14-11, 11-15-11, 11-16-11, 11-17-11, 11-18-11,

11-21-11, 11-22-11, 11-28-11, 11-29-11, 11-30-11, 12-1-11, 12-2-11, 12-5-11 & 12-6-11

11. Pre-treatment of waste at site before final treatment or disposal:

☐ Precipitation

☐ Neutralization

☐ Solidification

☐ Fixation

☐ Stabilization

☐ Other

☒ None

12. Final method of treatment or disposal/unit receiving:

☐ Precipitation

☐ Neutralization

☐ Incineration

☒ Landfill

☐ Land Treatment

☐ Injection

☐ Recovery/Re-Use

☐ Other

13. If waste was landfilled:

- what disposal cell number or location? Cell 2 & 3

- Type of liner in cell (e.g. PVC, Clay, hypalon) 3 foot of compacted clay with a 60 mil HDPE Liner

14. Cost of Activities:

- Cost based on treatment/disposal only: \$

- Cost for transportation: \$